

ABSTRACT

A data processing system includes a plurality of chain objects each of which is given a unique ID, a chain manager arranged so as to correspond to each chain object for performing
5 control of a process involving the chain objects, a chain directory for storing service information executable by each chain object, and a root chain manager for performing control of service execution by performing an ID acquisition process for each chain object, querying the chain directory about
10 an executable data processing service involving a chain object having the acquired ID, and further circulating chain tokens among chain managers corresponding to the chain objects participating in the service based on a reply to the query, whereby various configurations for providing and receiving
15 services are implemented.